

**SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION – PLEASANTON,  
TEXAS**

**SEEDING REPORT – July 27, 2017**

**SYNOPTIC/MESOSCALE CONDITIONS:**

Mostly cloudy this morning over south TX with isolated showers across the region. Isolated showers are possible through the early to mid morning hours. A weak east-to-west cold front has stalled across the region this morning, but looks to all but disappear by midday. Daytime heating and high humidity look to help create isolated showers and thunderstorms this afternoon and evening. High Heat Index values are also possible through this evening. High temperatures in the mid to upper 90's with warmer temps over the Rio Grande Plains. Partly cloudy overnight with low temps in the mid to upper 70's with cooler temps over hill country.

**LIFTING MECHANISM:**

Daytime heating, and outflow boundaries.

**THERMODYNAMIC INDICES (12Z KDRT)**

KCRP Freezing Level (m)	5535.69	KDRT Freezing Level (m)	4940.58
Precipitable Water (Inches)	2.01	CAPE (J/Kg)	643.33
LCL (m)	1471.01	CINH (J/Kg)	183.21
CCL (m)	2604.58	LI (degrees C)	-3.74
Cloud Base (m)	1605	PB	-1.7
Warm Cloud Depth (m)	3335.58	Cloud Base Temp (°C)	27
CRP -15°C height (m)	~7700	DRT -15°C height (m)	~7400
CRP ICA	-14.5	DRT ICA	-5.3

**DISCUSSION:** Isolated storms started forming over hill country in the early afternoon. Isolated showers began forming across Bee, Live Oak and McMullen after 20Z. By 21Z enough developed showers had formed over McMullen and hill country to launch pilot to investigate. Investigation started south of Pleasanton. Scattered showers formed across McMullen with multiple seeded showers. Some seemed to do better with seeding than others, but most showers did not last very long. Showers dissipated and/or moved out of the operational area so set pilot to developing showers in Medina county. Pilot began seeded a shower just north of Hondo after 23Z. Storm has multiple areas of inflow so seeded each one. Storms did not last long and seeding concluded by 23:15Z.

**Warnings:** None

**Seeded cell ID's:** 417, 405, 467, 597, unidentified

**Flight Information:**

Time (UTC)	Plane	Flare Location	County
21:17	57AA	In air	
21:30	57AA	170 @ 14 NM	Atascosa

21:33	57AA	167 @ 18	Atascosa
21:41	57AA	180 @ 28	McMullen
21:44	57AA	183 @ 28	McMullen
22:01	57AA	176 @ 30	McMullen
22:15	57AA	163 @ 41	McMullen
23:03	57AA	293 @ 45	Medina
23:07	57AA	298 @ 45	Medina
23:11	57AA	303 @ 51	Medina
0:03	57AA	Landed	

Seeding operations were conducted over Atascosa (4 + 0H), McMullen (5 + 1H), and Medina (3 + 1H) counties. 12 flares plus 2 hygroscopic flares were burned within 4+ clouds. This is the 12<sup>th</sup> day for seeding in July and the 25<sup>th</sup> day for seeding during the season.